

Fiscal Year

2017

## **Building Dashboard**

Findings

DOER Clean Energy Resiliency Initiative Grant awarded in 2016 - project on indefinite hold

	High Sch		21 Barr Ave				
			Building Data				
Structural Details			l	HVAC		Appliances/equipment	
Year Built	New construction completed in 2015 - Auditorium (only part of original building) built in 1957		Heating System	3 gas-fired hot water boilers, AHU-1 for gym, AHU-2 for café, RTU-1 auditorium, RTU-2 library, RTU-3 offices and nurse, cabinet heaters at entrances, 18 minisplits assorted rooms		Interior Lighting	All high efficiency LEDs
Square footage	169,650		Air Conditioning	Economisers on units, mini-splits serve specific rooms		Exterior Lighting	All high efficiency LEDs
Envelope	High performance thermal envelope with multiple insulation layers - R-34		Hot Water Heater	Two Aerco International gas-fired heaters and storage tank		Vending Machines	N/A
Roof	White membrane flat roof to reduce cooling loads, solar ready		Ventilation	In addition to above, 8 ERUnits for classrooms, and 11 exhaust fans		Emergency Generator	550 kW Diesel
Windows	Double glazed windows maximizing daylighting strategies		Heat Distribution	In addition to above, water boilers work with fin tube radiation system			
Insulation	R-34 walls, roof - Needs Data		EMS	Siemens management system: controls temp setbacks and scheduling for heat and ventilation as well as exterior lights.			
Building Summary	New LEED Gold High Sch there are plans to add p	•		original space that r	emained from old bu	ilding. Roof is solar-	ready, and
Ene	rgy Profile - FY202	1	An asterisk over a ba	■ Monthly Use ■ Annu ar indicates building inter			bar to display
	Energy Usage		more information abo	out the interventions.	FY 2016	FY 2020 FY 20	124
Electric (kWh)	Heat (therms)	EUI (kBTU/sqft)		2000 112012	112010	112020 1120	- 1000K - 8
894,240	31,921	37	8 7		_*_		
<b>EUI</b> <u>≤</u> 35	EUI = 35-50	EUI >50	100K-	monetal m		M.Haatiid.	- 500K
Meets Zero Energy Goal	Efficient	Priority to Improve	© 8			~~	- 30K 8
<u> </u>	Annual Energy Cost		Gas (therms)  Morthly Use  AS			alter d	- 20K Oneman
Electric	Heat	Total			<u></u>		- 10K - 0K
\$167,322	\$24,053	\$191,375	(S) 80K- 20K-				- 60K <u>8</u>
Berkshire Gas Rate Class		<u>G42</u>	Monthly Use	d. tra			- 60K 8 - 40K F
Electric Service Rate Class T2		<u>T2</u>	ō ≗ <sub>0K</sub> _				- 20K - 0K
Average Monthly Demand (kW) 228.7		228.7	A N	F M A N F	M A N F M A	N F M A N	F M
			Completed Wor	rk			
Fiscal Year		Project		Project Cost	Grants/Rebates	Life Expectancy	Warranty
2016	Renovations completed (MSB.		A)	\$65,743,393	\$41,787,165	varies	varies
		Capital I	mprovement Pl	an Projects			
Fiscal Year	Project			Town Cost	Grant/Rebate	Life Expectancy	Warranty
2022-23	Solar P	age	\$200,000	\$367,310	20-30 years	10-20 years	
			•	\$152,500	N/A	N/A	
2021-22	Food Service Applic	ince Replacement (with	Middle School)	\$132,300	,	, , , ,	N/A
	Food Service Applic	Maintenance an	·		·	.,,,	N/A
	Food Service Applie	•	d Replacement		·	Payback Time	N/A Supporting Inf

**Audits/Assessments** 

Type

Solar and Storage Assessments